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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|------------------|----------------------|---------------------|--|
| 10/500,374 | 10/28/2004 | Yukio Mori | 70594-030 | 7554 |
| 20277 7590 06/14/2007 MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. | EXAMINER | | | |
| | | | TRAN, THUY V | |
| WASHINGTO | N, DC 20005-3096 | | ART UNIT | PAPER NUMBER |
| | | | 2821 | |
| · | • | | | <u>, </u> |
| | | · | MAIL DATE | DELIVERY MODE |
| | | | 06/14/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(c) | | | |
|--|---|--|--|--|--|
| | | Applicant(s) | | | |
| Office Action Summers | 10/500,374 | MORI ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Thuy V. Tran | 2821 | | | |
| The MAILING DATE of this communication a Period for Reply | appears on the cover sheet w | ith the correspondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory peri Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNI 1.136(a). In no event, however, may a iod will apply and will expire SIX (6) MOI tute, cause the application to become A | CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1)⊠ Responsive to communication(s) filed on <u>an</u> 2a)⊠ This action is FINAL . 2b)□ T | | 22/2007. | | | |
| , | <u> </u> | | | | |
| closed in accordance with the practice unde | • | - | | | |
| Disposition of Claims | | , | | | |
| 4)⊠ Claim(s) <u>1,3-5 and 8-17</u> is/are pending in th | e application | | | | |
| 4a) Of the above claim(s) <u>12-16</u> is/are withd | | | | | |
| 5)⊠ Claim(s) <u>1,3-5 and 8-11</u> is/are allowed. | | | | | |
| 6)⊠ Claim(s) <u>17</u> is/are rejected. | | | | | |
| 7) Claim(s) is/are objected to. | | | | | |
| 8) Claim(s) are subject to restriction and | d/or election requirement. | | | | |
| Application Papers | | | | | |
| 9)☐ The specification is objected to by the Exam | iner. | | | | |
| 10)⊠ The drawing(s) filed on 22 March 2007 is/are | e: a)⊠ accepted or b)⊡ ob | jected to by the Examiner. | | | |
| Applicant may not request that any objection to t | he drawing(s) be held in abeya | nce. See 37 CFR 1.85(a). | | | |
| Replacement drawing sheet(s) including the corr | • | • • • • | | | |
| 11) ☐ The oath or declaration is objected to by the | Examiner. Note the attache | d Office Action or form PTO-152. | | | |
| Priority under 35 U.S.C. § 119 | | • | | | |
| 12)⊠ Acknowledgment is made of a claim for forei a)⊠ All b)□ Some * c)□ None of: | ign priority under 35 U.S.C. | § 119(a)-(d) or (f). | | | |
| 1. Certified copies of the priority docume | 1. Certified copies of the priority documents have been received. | | | | |
| Certified copies of the priority docume | ents have been received in A | Application No | | | |
| 3. Copies of the certified copies of the p | riority documents have beer | received in this National Stage | | | |
| application from the International Bure | | | | | |
| * See the attached detailed Office action for a l | ist of the certified copies not | received. | | | |
| | | | | | |
| Attachment(s) | 🗖 | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) | | Summary (PTO-413) (s)/Mail Date | | | |
| 3) X Information Disclosure Statement(s) (PTO/SB/08) | 5) D Notice of I | Informal Patent Application | | | |
| Paper No(s)/Mail Date <u>04/30/2007</u> . | 6) | · | | | |

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DETAILED ACTION

This Office Action is in response to the Applicants' amendment submitted on 03/22/2007. In virtue of this amendment, claims 2 and 6-7 are canceled, claim 17 is newly added; and thus, claims 1, 3-5, and 8-17 are now pending in the instant application, among which claims 12-16 have been withdrawn from further consideration as a result of the restriction/election requirement mailed 09/07/2006.

Applicants' arguments on the rejection of claim 1 with respect to the teaching of Ishizuka have been fully considered and are persuasive. The rejection of claim 1, therefore, has been withdrawn.

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 04/30/2007 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

- 2. Claims 1, 3-5, and 8-11 are allowed.
- 3. Prior art fails to disclose or fairly suggest:
 - A luminance control method for organic electroluminescence display characterized by comprising a first step of calculating a luminance accumulation value for each frame on the basis of a video input signal, and in the second step, the amplitude of the video input signal is controlled, when the luminance accumulation value calculated in the first step exceeds a predetermined value, such that the larger the difference between the luminance accumulation value and the predetermined value is, the

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smaller the amplitude of the video input signal becomes, in combination with the remaining claimed limitations as called for in independent claim 1;

- A luminance control method for organic electroluminescence display characterized in that, in the second step, a reference voltage supplied to a digital-to-analog converter for converting the digital video input signal into an analog video signal is controlled on the basis of the luminance accumulation value in the first step, to control the amplitude of the video input signal, in combination with the remaining claimed limitations as called for in independent claim 3 (claim 4 is allowed since it is dependent on claim 3); and
- A luminance control circuit for an organic electroluminescence display comprising a digital-to-analog converter for converting a digital video input signal into an analog video output signal on the basis of input/output characteristics defined by a given reference voltage, and feeding the analog video output signal to the organic electroluminescence display, and a reference voltage control circuit for controlling a reference voltage supplied to the digital-to-analog converter on the basis of the digital video input signal, and in that the reference voltage supplied to the digital-to-analog converter includes a black-side reference voltage for defining a light emitting luminance corresponding the a black level of the input signal and a white side reference voltage for defining a light emitting luminance corresponding to a white level of the input signal, in combination with the remaining claimed limitations as called for in independent claim 5 (claims 8-11 are allowed since they are dependent on claim 5).

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Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

5. Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 17 recites for an apparatus for receiving video input signals and transmitting video output signals with the use of such apparatus, but, since the claim does not set forth any description of parts/elements of which the apparatus is formed nor any active steps involved in the process of use, it is unclear what type of claim, whether apparatus or method/process, it is directed to. Such recitation renders the claim indefinite. If Applicants insist on retaining the claim as an apparatus claim, instead of citing the step of calculating, generating, or transmitting, etc., citing elements/parts that form the apparatus such as means for calculating, means for generating, means for transmitting, etc. is suggested. Clarification is required.

Remarks

6. Claim 17 would be allowed if rewritten in a form of an apparatus claim reciting all the performed steps in terms of means-plus-functions (e.g. means for calculating a luminance accumulation for each frame, etc.).

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Owens Douglas can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

06/09/2007

THUY V.TRAN
PRIMARY EXAMINER